



QUARTERLY LETTER OF INFORMATION OF THE FEDERAL HORTICULTURAL BOARD,  
UNITED STATES DEPARTMENT OF AGRICULTURE.

No. 25.

OCTOBER, 1917.

FOREWORD.

The Quarterly Letter of Information of the Federal Horticultural Board is a continuation of the News Letter of this office, the first number of which appeared February 2, 1914. In the future this letter will be issued during the months of October, January, April, and July of each year.

During the past three years these letters have been sent out at irregular intervals, owing largely to delay on the part of State inspectors in returning inspection reports. Inasmuch as these letters are drawn up primarily for the information of State inspectors, it is requested that all reports be returned to this office as promptly as possible, in order that the various interceptions may be brought to the attention of those engaged in the inspection of foreign stock within a reasonable time from the date of collection.

As in the past, the Federal Horticultural Board stands ready to assist in the identification of all unrecognized pests, providing suitable material is submitted for examination. In forwarding such material do not neglect to inclose appropriate data, and, to insure safe arrival, see that it is properly packed and addressed to the Federal Horticultural Board. Under no condition should living material of what appears to be an injurious insect be forwarded through the mails, except on request, and then only after extremely careful packing.

In this and future letters will be found, in addition to the information previously given, the names of the inspectors who made the interceptions, and also a list of the current quarantines and other restrictive orders.

C. L. MARLATT, *Chairman of Board.*

NOTES ON ENTOMOLOGICAL INTERCEPTIONS.

Since the issuance of Letter of Information No. 24, May 15, 1917, more than 20 species of ants, mostly of subtropical origin, have been collected in shipments of nursery stock. While it is true that the majority of the ants listed in this letter are already established in the United States, there are certain forms which have not as yet gained a wide distribution, and, therefore, every effort should be made to prevent their further introduction. For example, *Pheidole anastasi*, which is recorded in *Phormium tenax* from the Azores, has in recent years become a troublesome pest in the greenhouses of the Department of Agriculture, harboring and transferring mealybugs and aphids from plant to plant. The so-called "crazy ant" (*Prenolepis longicornis*), an introduced species, has been intercepted on nursery stock during the present year. This ant has already acquired a foothold in the Gulf States, and is now frequently met with in houses in the District of Columbia. The *Iridomyrmex*, collected by Mr. H. L. Sanford in a shipment of *Theobroma cacao* from Java, if allowed to become established in the United States, would, no doubt, eventually be a very troublesome pest, if one is to judge from the activities of the Argentine ant.

Two egg masses of the gipsy moth and one nest of the brown-tail moth have been reported on French stock, and larvæ of the sorrel cutworm (*Acronycta rumicis*) were collected on rose

stock on two occasions from the same country. Just how injurious the latter insect would become, if established in the United States, it is difficult to predict. In Europe this cutworm feeds on the foliage of hops and strawberries and various shrubs and trees. The nests of the fruit-tree pierid (*Aporia crataegi*) have been intercepted on six shipments of deciduous fruit-tree seedlings from France. According to European authorities the larvæ of this insect feeds on the foliage of fruit trees, wild rosaceous plants, and oak trees.

The larvæ of the swan, or gold-tail moth (*Porthesia similis*), have been found on rhododendron, laburnum, and roses from Holland. This insect in Europe is a general defoliator of forest trees, and every effort should be made to prevent its establishment in the United States. Papayas from Cuba were found to be infested with the payaya fruit fly, and orchids from Colombia were infested with Pyralid larvæ. In an effort to prevent the establishment of these larvæ and other injurious orchid insects in the United States, all orchids from countries without a system of inspection are now being fumigated at the port of arrival as a requirement for entry.

As usual, scale insects were collected frequently, the more important interceptions being *Ceroplastes rusci* and *Lepidosaphes ficus* from Spain and an unrecognized *Phenacaspis* on *Acer trifidum* from China. The Coccids referred to in Letter of Information No. 24 on avocado from Guatemala have again appeared in a recent shipment from the same locality.

E. R. SASSCER, *Chief Inspector.*

#### NOTES ON PATHOLOGICAL INTERCEPTIONS.

Citrus canker (*Pseudomonas citri*) appears again in this report. This time it was caught at a San Francisco express office on a grape fruit and an orange which had come from China, billed to a San Francisco address, but entering the United States at Portland, Oreg. The material was forwarded to Washington, and the identification was verified by Miss Hasse, of the Office of Fruit Disease Investigations, Bureau of Plant Industry.

As a result of this fortunate interception, an extension of the restrictions against oriental citrus was made. From the Orient only Satsuma oranges may now enter the United States, and these may enter only at the port of Seattle and under permit, certification, and inspection.

Four cases are also noted of the Japanese cedar rust on junipers from Japan. This is probably *Gymnosporangium koreaense* or *G. photiniae*, both of which have been previously reported on Japanese junipers imported from Japan.<sup>1</sup>

This rust is not only an enemy of junipers and might be of serious injury to American wild and ornamental junipers (often called red cedars), but like many other *Gymnosporangia* has for its ultimate host certain pomaceous fruits.

As reported by Jackson, *Gymnosporangium koreaense* has already established itself on *Pyrus sinensis* (the Japanese sand pear) at one place each in Oregon and California, and occurs on *Cydonia japonica* (the Japanese quince) and *Cydonia vulgaris* (the cultivated quince).

The single attempt which has been reported to inoculate it on *Pyrus communis* (the common pear) failed, but it is entirely possible that it may yet establish itself on this important fruit tree and repeat in the pear orchards the trouble which eastern apple growers are now having in their orchards with its near relative, the cedar rust (*Gymnosporangium juniperi-virginianae*).

R. KENT BEATTIE,  
*Chief Pathological Inspector.*

<sup>1</sup> Jackson, H. S. An Asiatic species of *Gymnosporangium* established in Oregon. Jour. Agr. Res., vol. 5, p. 1003-1009. 28 F., 1916.

**LIST, BY COUNTRIES, OF PESTS COLLECTED AND REPORTED FROM MAY 15, 1917, TO SEPTEMBER 30, 1917, INCLUSIVE.**

[The number in parentheses following name of host indicates the number of times reported.]

Country of origin and name of pest.	Host.
<b>ALGERIA.</b>	
Insects:	
Aspidiotus hederæ (ivy scale).....	Campanie articulata (1).
Oxycarenus hyalinipennis (Hemipteron) (dusky cotton bug).....	Gossypium (1).
<b>ANTIGUA, BRITISH WEST INDIES.</b>	
Insects:	
Aspidiotus subsimilis (scale insect).....	? (1).
Diaspis bromeliæ (scale insect).....	Pineapple (1).
Ischnoptera sp. (roach).....	Do.
Lepidosaphes mimosarum (scale insect).....	? (1).
Pseudococcus bromeliæ (pineapple mealy bug).....	Pineapple (1).
<b>ARGENTINA.</b>	
Insects:	
Bruchus prosopis (mesquite weevil).....	Prosopis juliflora blanco (2), Prosopis juliflora negro (1).
Bruchus sp. (weevil).....	Beans (2), Prosopis juliflora (1), Zizyphus mistol (1).
Calandra oryza (rice weevil).....	Maiz amarga (bitter corn) (1).
Diaspis echinocacti cacti (scale insect).....	Cereus sp. (1), Echinopsis sp. (1).
Pyralid larva.....	Tillandsia (1).
Sitodrepa panicea (Anobiidae).....	Peas (1).
Sitotroga cerealella (Angoumois grain moth).....	Maiz amarga (bitter corn) (1).
Solenopsis geminata (ant).....	Grass (1).
Tribolium ferrugineum (rust-red flour beetle).....	Tecoma ipe (1).
Diseases:	
Acrostalagmus.....	Cactus (1).
Penicillium.....	Do.
Phoma sp.....	Do.
Verticillium.....	Do.
<b>AUSTRALIA.</b>	
Insects:	
Alesia frenata (Coccinellid).....	Rhodes grass (1).
Calandra granaria (granary weevil).....	Wheat (1).
Howardia biclavus (mining scale).....	Erimocitrus glauca (1).
Lecanium sp. (scale insect).....	Gooseberry plants (1).
Red spider.....	Do.
Trialeurodes sp. (white fly).....	Davallia gracillimum (1).
<b>AZORES ISLANDS.</b>	
Insects:	
Periplaneta australasie (Australian roach).....	Phormium tenax (1).
Pheidole anastasi (ant).....	Do.
<b>BAHAMA ISLANDS.</b>	
Insect:	
Diaspis boisduvalii (scale insect).....	Coconut palm (1).
<b>BARBADOS, BRITISH WEST INDIES.</b>	
Disease:	
Melanconium sacchari (rind disease).....	Saccharum (1).
<b>BELGIUM.</b>	
Insects:	
Aleyrodes sp. (white fly).....	Azalea (1).
Coccus hesperidum (soft brown scale).....	Bay (1).
Gracilaria sp. (leaf miner).....	Azalea (1).
Peronea schalleriana (leaf roller).....	Azalea indica (1).
Disease:	
Exobasidium sp.....	Azalea (2).
<b>BERMUDA.</b>	
Insect:	
Hemichionaspis aspidistrae (aspidistra scale).....	Aspidistra (1).
Disease:	
Septoria oleandrina.....	Oleander (1).

## List, by countries, of pests collected and reported from May 15, 1917, to September 30, 1917, inclusive—Continued.

[The number in parentheses following name of host indicates the number of times reported.]

Country of origin and name of pest.	Host.
<b>BRAZIL.</b>	
<b>Insects:</b>	
Aspidiotus lataniae (scale insect).....	Dracaena canes (1), Palm (1).
Bruchus obtectus (bean weevil).....	Mulatinho beans (1).
Calandra granaria (granary weevil).....	Coccothraupis weddelliana (seeds) (1).
Chrysomphalus persicae (scale insect).....	Palm (1).
Hemichionaspis minor (scale insect).....	Herbaceous plant (1).
Ischnaspis longirostris (scale insect).....	Palm (2).
Lepidosaphes beckii (purple scale).....	Citrus nobilis deliciosa (1).
Parlatoria proteus (scale insect).....	Palm (1).
Pinnaspis buxi (scale insect).....	Do.
Saissetia hemisphaerica (hemispherical scale).....	Do.
Toxoptera coffeae (Coffee aphid).....	Cafe nacional (1).
<b>CANADA.</b>	
<b>Insects:</b>	
Aleyrodes sp. (white fly).....	Holly (1).
Trialeurodes vaporariorum (greenhouse white fly).....	Ribes sp. (1).
<b>CHINA.</b>	
<b>Insects:</b>	
Antestia sp. (Pentatomidae) (eggs of).....	Ailanthus glandulosa (1).
Aspidiotus perniciosus (San Jose scale).....	Chaenomeles cathayensis (fruit) (1).
Balaninus sp. (Curculionidae).....	Quercus sp. (1).
Bruchus chinensis (weevil).....	Beans (1).
Bruchus sp. (weevil).....	Koeleria bipin nata (1), Phaseolus angularis (1), Vigna sinensis (2).
Calandra granaria (granary weevil).....	Barley (2), Black rice barley (1).
Calandra oryza (rice weevil).....	Barley (2), Black rice barley (1), Quercus rex (1), Quercus sp. (1).
Chionaspis sp. (scale insect).....	Melia azedarach (1).
Lacmopuloeus pusillus (Cucujidae).....	Chinese walnuts (1).
Lepidosaphes sp. (scale insect).....	Pyrus (1).
Lycetus sp. (borer) (Bostrychidae).....	Big sour pear (1).
Phenacaspis sp. (scale insect).....	Acer trifidum (1).
Silvanus surinamensis (saw-toothed grain beetle).....	Pomelo seed (1).
<b>Diseases:</b>	
Claviceps sp. ....	Spodiopogon sibiricus (1).
Melanconium sacchari.....	Saccharum sp. (sugar-cane cuttings) (1).
Pseudomonas citri.....	Grapefruit (1).
Do.....	Orange (1).
Uromyces appendiculatus.....	Vigna sinensis (1).
<b>COLOMBIA.</b>	
<b>Insects:</b>	
Cardiastethus tropicalis (Anthocoridae).....	Orchid (1).
Chrysomphalus persicae (scale insect).....	Do.
Chrysomphalus personatus (masked scale).....	Do.
Cryptocerus sp. (ant).....	Do.
Cryptomyrmex calvini (ant).....	Do.
Diaspis boisduvalii (scale insect).....	Do.
Dinex americana (Forficulidae).....	Do.
Isosoma orchideraum (Cattleya fly: adult).....	Do.
Lepisma saccharina (silver fish).....	Do.
Litargus sp. (Myecophagidae).....	Do.
Odontomachus haematoda (ant).....	Do.
Periplaneta australasiae (Australian roach).....	Do.
Phycitid larva.....	Do.
Prenolepis (Nylanderia) fulva (ant).....	Do.
Pseudomops sp. (Blattariae).....	Do.
Ptinus sp. (Ptilidae).....	Do.
Pycnoscelus surinamensis (Pycnoscelus).....	Do.
Pyralid larva.....	Orchid (2).
Silvanus advena (Cucujidae).....	Orchid (1).
Solenonotus nigromarginatus (Anthocoridae).....	Do.
Tapinoma melanocephalum Fabr. dark var. (ant).....	Do.

List, by countries, of pests collected and reported from May 15, 1917, to September 30, 1917, inclusive—Continued.

[The number in parentheses following name of host indicates the number of times reported.]

Country of origin and name of pest.	Host.
<b>COLOMBIA—continued.</b>	
<b>Insects—Continued.</b>	
<i>Tarsonia biformis</i> (scale insect).....	Orchid (1).
<i>Telephanus</i> (two unknown species) (Cucujidæ).....	Do.
<i>Tenebrionid</i> .....	Do.
<i>Tenthecoris bicolor</i> (Miridæ).....	Do.
<i>Trialeurodes vaporariorum</i> (greenhouse white fly).....	Digitalis leaves (1).
<i>Wasmannia auropunctata</i> (ant).....	Orchid (2).
<i>Zophobas morio</i> (Tenebrionidæ).....	Orchid (1).
<b>COSTA RICA.</b>	
<b>Insect:</b>	
<i>Bruchus</i> sp. (weevil).....	Yellow vetch (1).
<b>Diseases:</b>	
<i>Colletotrichum</i> sp.....	Vanilla sp. (2).
<i>Helminthosporium</i> sp.....	Fico (1).
<i>Volutella</i> sp.....	? (1).
<b>CUBA.</b>	
<b>Insects:</b>	
<i>Bephrata cubensis</i> (Anona seed chalcid).....	Soursop (1).
<i>Chrysomphalus aonidium</i> (Florida red scale).....	Palm (1).
<i>Cylas formicarius</i> (sweet-potato weevil).....	Sweet-potato (2).
<i>Diatrea</i> sp. (sugar cane borer).....	Saccharum (1).
<i>Eriophyes</i> sp. (mite).....	Fern (1).
<i>Lepidosaphes gloverii</i> (long scale).....	Citrus (1).
<i>Pseudonidia articulatus</i> (scale insect).....	Croton (2), Pandanus (1), Tamarind (1), Unknown plant (1).
<i>Pseudococcus adonidum</i> (long-tailed mealy bug).....	Mango (1).
<i>Pseudococcus citri</i> (citrus mealy bug).....	Saccharum (1).
<i>Pseudococcus</i> sp. (mealy bug).....	Shrub (1).
Red spider.....	Pose (1).
<i>Phizoglyphus phylloxerae</i> (mite) (Family Tyroglyphidæ).....	Avocado seeds (1).
<i>Tetramorium guineense</i> (ant).....	Do.
<i>Toxotrypana curvicauda</i> (papaya fruit fly).....	Papaya (1).
<b>Diseases:</b>	
<i>Colletotrichum falcatum</i> .....	Saccharum officinarum (sugar cane) (1), Saccharum sp. (2).
<i>Colletotrichum gloesporioides</i> .....	Citrus (1).
<i>Lasioidiplodia</i> .....	Ficus stems (1).
<b>CURACAO, DUTCH WEST INDIES.</b>	
<b>Insects:</b>	
<i>Bruchus quadrimaculatus</i> (weevil).....	Cowpeas (1).
<i>Cardiastethus assimilis</i> (Anthocoridæ).....	Acacia villosa (1).
<i>Catorama</i> sp. (Ptinidæ).....	Beans (1).
<i>Holoparamesus</i> sp. (Latriidæ).....	Coruba (palm seed) (1).
<i>Laemophloeus</i> sp. (Cucujidæ).....	Polygonacea (1).
<i>Ostoma guanii</i> (Nitidulidæ).....	Bean (1).
<i>Solenophorus</i> sp. (Cerambycidæ).....	Leguminous plant (1).
<i>Solenopsis geminata</i> (ant).....	Sorghum (1).
<i>Stephanoderes</i> sp. (Scolytidæ).....	Hibiscus esculentus (1), Manzanula seeds (1).
<b>Disease:</b>	
<i>Phoma</i> sp.....	Orchid (1).
<b>EGYPT.</b>	
<b>Insects:</b>	
<i>Chrysomphalus aurantii</i> (red scale of California).....	Solanum rondletii (1).
<i>Pseudococcus citri</i> (citrus mealy bug).....	Chayota edulis (1).
<i>Pseudococcus</i> sp. (mealy bug).....	Do.
<b>Disease:</b>	
<i>Fusarium solani</i> .....	Colocasia esculenta (tubers) (1), Colocasia sp. (2).
<b>ENGLAND.</b>	
<b>Insects:</b>	
<i>Aspidiotus britannicus</i> (scale insect).....	Boxwood (1).
<i>Aspidiotus perniciosus</i> (San Jose scale).....	Apple (1).

List, by countries, of pests collected and reported from May 15, 1917, to September 30, 1917, inclusive—Continued.

[The number in parentheses following name of host indicates the number of times reported.]

Country of origin and name of pest.	Host.
<b>ENGLAND—continued.</b>	
<b>Insects—Continued.</b>	
<i>Bryobia pratensis</i> (clover mite) (eggs).....	Apple (2).
<i>Cerataphis lataniae</i> (palm aphid).....	<i>Cypripedium insigne sanderii</i> (1), Orchid (1).
<i>Coccus hesperidum</i> (soft brown scale).....	<i>Sarcococca humilis</i> (1).
<i>Diaspis boisduvalii</i> (scale insect).....	<i>Cattleya</i> (1), <i>Cymbidium</i> (1), <i>Cypripedium</i> (1).
<i>Emphytus cinctus</i> (sawfly) (larvæ).....	Rose stocks (1).
<i>Eriosoma lanigera</i> (woolly aphid).....	Apple (2).
<i>Eucalymnatus tessellatus</i> (scale insect).....	Orchid (1).
<i>Lecanium corni</i> (European fruit Lecanium).....	<i>Ceanothus hybridus</i> (1), <i>Ribes robustum</i> (1).
<i>Lepidosaphes ulmi</i> (oyster-shell scale).....	Apple (4), Boxwood (1), <i>Ceanothus hybridus</i> (1).
	Pear (1), <i>Ribes robustum</i> (1).
<i>Pseudococcus</i> sp. (mealy bug).....	<i>Cytisus pissox</i> (1), <i>Ilex fargesii</i> (1).
<i>Tingis</i> eggs ( <i>Tingitidae</i> ).....	<i>Rhododendron</i> (2).
<i>Tortricid</i> (moth).....	<i>Corylus</i> (1).
<b>Diseases:</b>	
<i>Bacterium tumefaciens</i> (crown gall).....	Manetti (1).
<i>Heterodera radiculicola</i> (nematode).....	<i>Corylus</i> (1).
<b>FRANCE.</b>	
<b>Insects:</b>	
<i>Acronycta rumicis</i> ( <i>Noctuidæ</i> ).....	Rose stocks (2).
<i>Apatela auricoma</i> (dagger moth) (pupæ).....	<i>Berberis darwini</i> (1), cherry (1), lilac (1), plum (1); rose stocks (1), <i>Viburnum</i> (1), <i>Weigelia rosea</i> (1), White honeysuckle (1).
<i>Aporia crataegi</i> (white tree Pierid) (nests).....	Apple seedlings (2), Fruit tree stocks (1), Pear seed- lings (1), Plum seedlings (2).
<i>Aspidiotus camelliae</i> (greedy scale).....	Apple (1).
<i>Aulacaspis rosæ</i> (rose scale).....	Rose stocks (1).
<i>Coccus hesperidum</i> (soft brown scale).....	Camelliae (3).
<i>Diaspis carueli</i> (juniper scale).....	<i>Arbor-vitæ</i> (1), Irish juniper (1).
<i>Emphytus cinctus</i> (sawfly).....	Manetti (2), rose stocks (2).
<i>Endrosis lacteella</i> ( <i>Tineæ</i> ).....	Burlap bagging (1).
<i>Eriosoma lanigera</i> (woolly aphid).....	Apple (4), Apple seedlings (2), fruit stocks (1).
<i>Euproctis chrysorrhoeæ</i> (brown-tail moth) (nest).....	Apple (1).
<i>Lasiocampid</i> .....	Quince seedlings (1).
<i>Lecanium corni</i> (European fruit Lecanium).....	<i>Fontanesia phillyræoides</i> (1), <i>Styrax dasyanthemum</i> (1).
<i>Lecanium persicæ</i> (scale insect).....	<i>Ampelopsis</i> (1).
<i>Lepidosaphes ulmi</i> (oyster-shell scale).....	Lilac (1), <i>Ribes</i> sp. (2).
<i>Monarthropalpus buxi</i> (box leaf miner).....	Boxwood (1).
<i>Notolophus antiqua</i> (European tussock moth) (eggs).....	Pear (1).
<i>Porthetria dispar</i> (gipsy moth) (two egg masses).....	? (1).
<i>Pyralidæ</i> .....	Fruit stocks (1).
<i>Saperda populnea</i> ( <i>Cerambycidæ</i> ).....	<i>Populus bolleana</i> (1), <i>Populus</i> sp. (1).
<i>Sesia tipuliformis</i> ( <i>Sesiidæ</i> ).....	<i>Ribes</i> sp. (1).
<b>Diseases:</b>	
<i>Bacterium tumefaciens</i> (crown gall).....	Apple (1), apple seedlings (1), cherry (1), fruit stocks (4), lilac (2), myrobalan seedlings (1), pear (2), plum (1), <i>Prunus myrobalana</i> (1), rose stocks (2), <i>Syringa alba</i> (1), <i>Syringa vulgaris</i> (1), ? (2).
<i>Bacterium tumefaciens</i> (hairy root).....	Apple (1), apple seedlings (2), fruit stocks (2), mazzard cherry stock (1), ? (1).
<i>Coniothyrium</i> sp.....	<i>Syringa vulgaris</i> (1).
<i>Frankia alni</i> .....	<i>Elaeagnus longipes</i> , roots of (1).
<i>Gloeosporium berberidis</i> .....	<i>Berberis</i> (1).
<b>GERMANY.</b>	
<b>Diseases:</b>	
<i>Cercospora beticola</i> .....	<i>Beta vulgaris</i> (sugar beet) (1).
<i>Phoma betæ</i> .....	Do.
<b>GUATEMALA.</b>	
<b>Insects:</b>	
<i>Anthicus floralis</i> ( <i>Anthicidæ</i> ).....	<i>Persea americana</i> (1).
<i>Aspidiotus camelliae</i> (greedy scale).....	Avocado (3).
<i>Aspidiotus lataniae</i> (scale insect).....	Avocado (3), Avocado budsticks (1).

List, by countries, of pests collected and reported from May 15, 1917, to September 30, 1917, inclusive—Continued.

[The number in parentheses following name of host indicates the number of times reported.]

Country of origin and name of pest.	Host.
<b>GUATEMALA—continued.</b>	
<b>Insects—Continued.</b>	
Aspidiotus sp. (scale insect).....	Avocado (4), Avocado budsticks (1), shrub, malva- ceous (1).
Camponotus sp. (ant).....	Orchid, wild (1).
Carpophilus hemipterus (Nitidulidæ).....	Persea americana (1).
Caulophilus latinasus (broad-nosed grain weevil).....	Avocado (1), Persea americana (1).
Cerataphis lataniæ (palm aphid).....	Orchid (1).
Chrysomphalus perseæ (scale insect).....	Do.
Coccus sp. (scale insect).....	Avocado (2).
Cryptocerus sp. (ant).....	Orchid, wild (1).
Curculionid.....	Orchid (1).
Diaspis sp. (scale insect).....	Avocado (1).
Dolichoderus bispinosus (ant).....	Orchid, wild (1).
Echocerus maxillosus (Tenebrionidæ).....	Persea americana (1).
Lecanium sp. (scale insect).....	Avocado (2).
Lepidosaphes sp. (scale insect).....	Shrub, malvaceous (1).
Parallelodiplosis cattleyæ (Cattlea midge) (Cecidomyiidæ).....	Orchid. (1).
Prolabia arachidis (Forficulidæ).....	Persea americana (1)
Silvanus advena (Cucujidæ).....	Do.
Silvanus bidentatus (Cucujidæ).....	Do.
Triphleps sp. (Anthocoridæ).....	Do.
<b>Diseases:</b>	
Colletotrichum gloeosporioides.....	Avocado (11).
Pestalozzia sp.....	Achradelpha viridis (1).
<b>HAITI.</b>	
<b>Insects:</b>	
Calandra oryza (rice weevil).....	Rice (2), Zea mays (1).
Sitotroga cerealella (Angoumois grain moth).....	Rice (1), Zea Mays (1).
<b>HAWAII.</b>	
<b>Insects:</b>	
Anisolabia annulipes (Forficulidæ).....	In charcoal around Saccharum cuttings (1).
Chrysomphalus aonidium (Florida red scale).....	Pandanus rockii (1), Pandanus sp. (1).
Ischnaspis longirostris (scale insect).....	Do.
Plagiopsis mactavishi (ant).....	Bamboo (1).
Silvanus advena (Cucujidæ).....	In charcoal around Saccharum cuttings (1).
<b>HOLLAND.</b>	
<b>Insects:</b>	
Anthocoris sp. (Anthocoridæ).....	Flax (1).
Aphis tulipæ.....	Iris nigricans (1).
Brachycera (unknown) (Diptera—suborder Orthorrhapha).....	Paradanthus chinensis (1).
Bryobia pratensis (clover mite) (eggs).....	Lilac (1).
Lepidosaphes ulmi (oyster-shell scale).....	Boxwood (1), fruit stock (1).
Leptobyrza rhododendri (Tingitid) (eggs).....	Rhododendron (1).
Notolophus antiqua (European tussock moth).....	Acer plantanoides (1), ? (1).
Portesia similis (Arctiidæ) (gold-tail moth).....	Laburnum (1), rose (1).
Pteronidæ leucotrochus (sawfly) (cocoon).....	Currant bushes (1).
Sciara sp. (Mycetophilidæ).....	Lilac (1), Paradanthus chinensis (1).
<b>Diseases:</b>	
Botrytis, sclerotia of.....	Lilac (1).
Colletotrichum gloeosporioides.....	Rhododendron (1).
Gloeosporium apocryptum.....	Norway maple (1).
Pestalozzia guepini.....	Rhododendron (2).
<b>HONDURAS.</b>	
<b>Insects:</b>	
Chrysomphalus dictyospermi (scale insect).....	Avocado (1).
Lecanium sp. (scale insect).....	Do.
<b>INDIA.</b>	
<b>Insects:</b>	
Bruchus chinensis (weevil).....	Cowpeas (1).
Bruchus sp. (weevil) (eggs).....	Beans (1).
Coccotrypes dactyliperda (weevil).....	Nannorhops ritchieana (palm seed) (1).
Parlatoria pergandei var. theæ (chaff scale).....	Plum (1).

List, by countries, of pests collected and reported from May 15, 1917, to September 30, 1917, inclusive—Continued.

[The number in parentheses following name of host indicates the number of times reported.]

Country of origin and name of pest.	Host.
<b>IRELAND.</b>	
Disease: Bacterium tumefaciens (crown gall).....	Rose (1).
<b>ITALY.</b>	
Insects: Lasioderma serricorne (cigarette beetle).....	Amygdalus seeds (1).
Lathropus vernalis (Cucujidæ).....	Grevillea banksii (1).
Disease: Sclerotia.....	Nephelium tomentosum (1).
<b>JAMAICA.</b>	
Insects: Anthocoris sp. near variipes (Anthocoridae).....	Pithecolobium dulce (1).
Lepidosaphes sp. (scale insect).....	Croton (1).
Pseudococcus sacchari (sugar cane mealy bug).....	Saccharum (2).
Pseudococcus sp. (mealy bug).....	Saccharum (1).
Silvanus advena (Cucujidæ).....	Pithecolobium dulce (1).
Disease: Melanconium saccari.....	Saccharum (5).
<b>JAPAN.</b>	
Insects: Agrilus sp. (Buprestidæ).....	Chestnut trees (1).
Aleyrodes sp. (white fly).....	Gardenia (1).
Antonina crawii (scale insect).....	Bamboo (1).
Cecidomyiid.....	Daphne (1).
Chionaspis wistariæ (wistaria scale).....	Wistaria (2).
Cicada eggs.....	Azalea (1), Camellia (1), Persimmon (1).
Coccus hesperidum (soft brown scale).....	Camellia (1), Cercis japonica (1).
Diaspis pentagona (West Indian peach scale).....	Cherry (1).
Elaterid (wireworm).....	Juniper (1).
Emphytus sp. (sawfly) (larvæ).....	Azalea (1).
Fiorinia sp. (scale insect).....	Cephalotaxus drupacea (1).
Glycyphana argyrosticta (Lamellicornes).....	? (1).
Hemichionaspis aspidistrae (aspidistra scale).....	Aspidistra (1).
Lecanium sp. (scale insect).....	Wistaria (1).
Lepidosaphes lasianthi (scale insect).....	Camellia (2).
Lepidosaphes newsteadii (scale insect).....	Sciadopitys verticillata (1).
Parlatoria sp. (scale insect).....	Camellia (1).
Poliaspis pini (scale insect).....	Pine (1).
Pseudaonidia duplex (scale insect).....	Azalea (1), Camellia (4).
Pseudaonidia pæoniæ (scale insect).....	Azalea (5), ledifolium rosæ (1).
Pseudococcus sp. (mealy bug).....	Azalea (5), Azalea benigiri (1), Cercis japonica (1), Wistaria (2).
Pyralidæ—subfamily Gallerinæ.....	Azalea (1).
Rhopalosiphum sp. (aphid).....	Dianthus japonica (1).
Sciara sp. (Mycetophilidæ).....	Cycas stems (1), Cycas revoluta stems (1).
Thyridopteryx ephemeræformis (bagworm).....	Persimmon (1), Thuya obtusa (1).
Diseases: Fungus galls.....	Juniperus chinensis (1).
Gymnosporangium japonicum.....	Juniper (1), Juniperus procumbens (1).
Gymnosporangium sp.....	Dwarf red cedar (1).
Pestalozzia sp.....	? (1).
<b>JAVA.</b>	
Insects: Aræcerus fasciculatus (coffee-bean weevil).....	Mangifera cæsia (seeds) (1)
Gryllotalpa africana (Gryllidæ).....	Theobroma cacao (1).
Iridomyrmex sp. (ant).....	Do.
Pheidole megacephala (ant).....	Do.
Plecia fulvicollis (Bibionidæ).....	Theobroma cacao (in soil around roots) (1).
Tetramorium sp. (ant).....	Theobroma cacao (1).



*List, by countries, of pests collected and reported from May 15, 1917, to September 30, 1917, inclusive—Continued.*

[The number in parentheses following name of host indicates the number of times reported.]

Country of origin and name of pest.	Host.
<b>MADEIRA.</b>	
Insect:	
Pseudococcus adonidum (long-tailed mealy bug).....	Chayota edulis (1).
Diseases:	
Botrytis sp. ....	Do.
Fusarium sp. ....	Do.
<b>MEXICO.</b>	
Insects:	
Bruchus sp. (weevil).....	Acacia spadicigera (1).
Chrysomphalus perseæ (scale insect).....	Orchid (2).
Diaspis boisduvalii (scale insect).....	Laurus nobilis (1).
Lonchæa sp. (Sapromyzidæ).....	Chayotes (1).
Parallelodiplosis cattleyæ (cattleya midge) (Cecidomyiidæ)	Orchid, wild (1).
<b>PALESTINE.</b>	
Insects:	
Bruchus pisorum (pea-weevil).....	Pisum fulvum (1).
Ptinus brunneus (Ptinidæ).....	Pistacia terebinthus (1).
<b>PANAMA.</b>	
Insects:	
Diaspis boisduvalii (scale insect).....	Orchid (1).
Vinsonia stellifera (star scale).....	Do.
<b>PARAGUAY.</b>	
Insect:	
Cecidomyiid.....	Eugenia sp. (1).
Disease:	
Hyalopus.....	Cactus (1).
<b>PERU.</b>	
Insects:	
Ptinid.....	Cuzco corn (1).
Trigonogenius peruvianus (Ptinidæ).....	Do.
Trigonogenius sp. (Ptinidæ).....	Do.
Disease:	
Colletotrichum gloeosporioides.....	Avocado seed (1).
<b>PHILIPPINE ISLANDS.</b>	
Insects:	
Aspidiotus sp. (scale insect).....	Mabolo cuttings (1).
Ceroplastes floridensis (Florida wax scale).....	Citrus hystrix (1).
Chrysomphalus aurantii (red scale of California).....	Nipa palm (1).
Saissetia hemispherica (scale insect).....	Orchid (1).
Diaspis sp. (scale insect).....	Mabolo cuttings (1).
Morganella maskelli (scale insect).....	Do.
Polyrhachis dives (ant).....	Saccharum seeds (1).
Pseudococcus sp. (mealy bug).....	Castilla elastica (1).
Diseases:	
Diplodia sp.....	Nipa sp. (1).
Septoria sp.....	Pennisetum cenchroides (1).
<b>PORTO RICO.</b>	
Insect:	
Diaspis pentagona (West Indian peach scale).....	Juglans portoricensis (1).
<b>REUNION.</b>	
Insect:	
Carpophilus humeralis (Nitidulidæ).....	Chayotes (1).
<b>SAINT LUCIA, WEST INDIES.</b>	
Insects:	
Pseudococcus sp. (mealy bug).....	Chayota edulis (1).
Saissetia oleæ (black scale).....	Do.
Sciara sp. (Mycetophilidæ).....	Do.
Disease:	
Diplodia sp.....	Do.

*List, by countries, of pests collected and reported from May 15, 1917, to September 30, 1917, inclusive—Continued.*

[The number in parentheses following name of host indicates the number of times reported.]

Country of origin and name of pest.	Host.
<b>SCOTLAND.</b>	
<b>Insect:</b>	
Formica sp. (ant).....	? (1).
<b>Disease:</b>	
Sclerotinia fructigena (brown-rot cankers).....	Peach (1).
<b>SOUTH AFRICA.</b>	
<b>Insects:</b>	
Calandra oryza (rice weevil).....	Zea mays (1).
Urodon sp. (Curculionidae).....	Gladiolus (1).
<b>SPAIN.</b>	
<b>Insects:</b>	
Ceroplastes rusci (scale insect).....	Ficus sp. (1).
Chrysomphalus dictyospermi (scale insect).....	Citrus (1).
Lecanium sp. (scale insect).....	Pyrus sp. (1).
Lepidosaphes ficus (scale insect).....	Ficus sp. (1).
<b>STRAITS SETTLEMENTS.</b>	
<b>Insects:</b>	
Holoparamesus sp. (Latridiidae).....	Ananas sativus (1).
Pseudococcus bromeliae (pineapple mealy bug).....	Ananas pernambuco (1).
	Ananas saranak (1).
<b>TRINIDAD.</b>	
<b>Insects:</b>	
Brachymyrmex heeri depilis (ant).....	Thunbergia grandiflora, in soil around (1).
Brachymyrmex sp. (ant).....	Orchid root (1).
Cryptorhynchid.....	Saraca indica (1).
Cyphomyrmex sp. (ant).....	Orchid root (1).
Diatraea saccharalis (sugar-cane borer).....	Saccharum cuttings (1).
Entermes sp. (termites).....	Orchid support of dead wood (1).
Japyx sp. (Thysanura).....	Orchid (1).
Pseudococcus sacchari (sugar-cane mealy bug).....	Saccharum (1).
<b>VENEZUELA.</b>	
<b>Insects:</b>	
Aradid.....	Orchid (1).
Aspidiotus lataniae (scale insect).....	Euterolokium (1).
Bruchus sp. (weevil).....	Cucurbitacea vine (1), Ipomea sp. (1).
Cerataphis lataniae (palm aphid).....	Orchid (1).
Chrysomphalus perseae (scale insect).....	Do.
Diaspis boisduvalii (scale insect).....	Orchid (4).
Isosoma orchidearum (Cattleya fly).....	Orchid (1).
Periplaneta sp. (roach).....	Do.
Pheidole sp. (ant).....	Do.
Procryptocerus sp. (ant).....	Do.
Stephanoderus sp. (Scolytidae).....	Chuparon (1).
Tagalis sp. (Reduviidae).....	Orchid (1).
<b>VIRGIN ISLANDS.</b>	
<b>Insects:</b>	
Diatraea saccharalis (sugar-cane borer).....	Saccharum (1).
Targionia sacchari (scale insect).....	Saccharum cuttings (1).

## LIST, BY STATES, OF PESTS COLLECTED.

[The number in parentheses following name of country indicates the number of times reported.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
<b>CALIFORNIA.</b>			
<b>Insects:</b>			
Aleyrodes sp. (white fly).....	Gardenia.....	Japan (1).....	A. S. Hoyt, C. H. Vary.
Do.....	Holly.....	Canada (1).....	A. S. Hoyt, D. J. Deven-
Antonina crawii (scale insect)....	Bamboo.....	Japan (1).....	dorf.
Cecidomyioid.....	Daphne.....	.....do.....	S. Chatterley, A. C. Chat-
Cerataphis lataniae (palm aphid)...	Cypripedium insigne san-	.....do.....	terley.
Chionaspis wistariae (wistaria scale)	derii.....	England (1).....	John F. Benton.
Do.....	Wistaria.....	Japan (1).....	Thomas R. Redmayne.
Cicada eggs.....	.....do.....	.....do.....	A. S. Hoyt.
Do.....	Azalea.....	.....do.....	C. H. Vary.
Do.....	Camellia.....	.....do.....	Do.
Do.....	Persimmon.....	.....do.....	W. M. Phillipson, A. S.
Coccus hesperidum (soft brown	Camellia.....	France (1).....	Hoyt.
scale).	.....do.....	.....do.....	C. H. Vary.
Do.....	.....do.....	Japan (1).....	H. H. Spies, C. A. Perrin.
Diaspis boisduvalii (scale insect)..	Orchid.....	Venezuela (1)....	C. H. Vary, A. S. Hoyt.
Fiorinia sp. (scale insect).....	Cephalotaxus drupacea.....	Japan (1).....	B. B. Whitney.
Isosoma orchidearum (Cattleya fly)	Orchid.....	Venezuela (1)....	Do.
Lecanium sp. (scale insect).....	Gooseberry plants.....	Australia (1)....	Do.
Do.....	Wistaria.....	Japan (1).....	Fred Seulberger.
Lepidosaphes lasianthi (scale in-	Camellia.....	.....do.....	C. H. Vary.
sect).	.....do.....	.....do.....	C. H. Vary, A. S. Hoyt.
Lepidosaphes newsteadii (scale	Sciadopitys verticillata.....	.....do.....	W. M. Phillipson, A. S.
insect).	Boxwood.....	Holland (1).....	Hoyt.
Lepidosaphes ulmi (oyster-shell	Camellia.....	Japan (1).....	John F. Benton.
scale).	Azalea indica.....	Belgium (1).....	B. B. Whitney.
Parlatoria sp. (scale insect).....	Pine.....	Japan (1).....	John F. Benton.
Peronea schalleriana (leaf-roller)...	Camellia.....	.....do.....	S. Chatterley, A. C. Chat-
Poliaspis pini (scale insect).....	.....do.....	.....do.....	terley.
Pseudaonidia duplex (scale insect).	.....do.....	.....do.....	A. S. Hoyt.
Do.....	.....do.....	.....do.....	Fred Seulberger.
Do.....	.....do.....	.....do.....	B. B. Whitney.
Pseudococcus sp. (mealy bug).....	Azalea.....	Japan (3).....	A. S. Hoyt.
Do.....	.....do.....	Japan (1).....	C. H. Vary.
Do.....	.....do.....	.....do.....	C. H. Vary, A. S. Hoyt.
Do.....	Castilla elastica.....	Philippine Is-	B. B. Whitney.
Do.....	.....do.....	lands (1).....	Fred Seulberger.
Do.....	Wistaria.....	Japan (1).....	A. S. Hoyt.
Do.....	.....do.....	.....do.....	B. B. Whitney.
Red Spider.....	Gooseberry plants.....	Australia (1)....	C. H. Vary.
Thyridopteryx ephemeraeformis	Persimmon.....	Japan (1).....	Do.
(bagworm).	Thuya obtusa.....	.....do.....	Do.
Do.....	Myrobalan seedlings.....	France (1).....	D. L. Currie.
<b>Diseases:</b>	Mazzard cherry stock.....	.....do.....	G. Arnaud.
Bacterium tumefaciens (crown gall)	Juniperus procumbens.....	Japan (1).....	B. B. Whitney, D. P. T.
Bacterium tumefaciens (hairy root)	.....do.....	.....do.....	Macdonald.
Gymnosporangium japonicum.....	Grapefruit.....	China (1).....	Frederick Maskew.
Pseudomonas citri.....	Orange.....	.....do.....	Do.
Do.....	.....do.....	.....do.....	Do.
<b>CONNECTICUT.</b>			
<b>Insects:</b>			
Acronycta rumicis (Noctuidæ).....	Rose stocks.....	France (2).....	Q. S. Lowry.
Emphytus cinctus (sawfly) (larvæ).	Manetti.....	.....do.....	M. P. Zappe.
Do.....	Rose stocks.....	.....do.....	Q. S. Lowry.
Eriosoma lanigera (woolly aphid)...	Apple.....	France (1).....	M. P. Zappe.
<b>Diseases:</b>			
Bacterium tumefaciens (crown gall)	Lilac.....	.....do.....	Q. S. Lowry.
Do.....	Pear.....	.....do.....	M. P. Zappe.
Do.....	Rose stocks.....	France (2).....	Q. S. Lowry.

## List, by States, of pests collected—Continued.

[The number in parentheses following name of country indicates the number of times reported.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
DISTRICT OF COLUMBIA.			
<b>Insects:</b>			
<i>Alesia frenata</i> (Coccinellid) .....	Rhodes grass .....	Australia (1) .....	H. F. Dietz.
<i>Anisolabia annulipes</i> (Forficulidæ) ..	In charcoal around Saccharum cuttings.	Hawaii (1) .....	Do.
<i>Antestia</i> sp. (Pentatomidæ) (eggs of).	<i>Ailanthus glandulosa</i> .....	China (1) .....	J. R. Horton.
<i>Anthicus floralis</i> (Anthicidæ) .....	<i>Persea americana</i> .....	Guatemala (1) .....	H. F. Dietz, J. R. Horton, H. L. Sanford.
<i>Anthocoris</i> sp. near <i>varipes</i> (Anthocoridæ) ..	<i>Pithecolobium dulce</i> .....	Jamaica (1) .....	J. R. Horton.
<i>Anthocoris</i> sp. (Anthocoridæ) .....	Flax .....	Holland (1) .....	H. F. Dietz.
<i>Aphis tulipæ</i> .....	<i>Iris nigricans</i> .....	do. ....	Do.
<i>Araecerus fasciculatus</i> (coffee-bean weevil) ..	<i>Mangifera cæsia</i> (seeds) .....	Java (1) .....	H. L. Sanford.
<i>Aspidiotus camelliæ</i> (greedy scale) ..	Avocado .....	Guatemala (1) .....	H. F. Dietz.
Do .....	do .....	do .....	H. Morrison.
Do .....	do .....	do .....	E. R. Sasscer.
<i>Aspidiotus hederæ</i> (ivy scale) .....	<i>Camanie articulata</i> .....	Algeria (1) .....	H. Morrison.
<i>Aspidiotus lataniæ</i> (scale insect) ..	Avocado .....	Guatemala (1) .....	H. F. Dietz.
Do .....	do .....	Guatemala (2) .....	J. R. Horton.
Do .....	Avocado budsticks .....	Guatemala (1) .....	H. L. Sanford.
Do .....	<i>Euterolokium</i> .....	Venezuela (1) .....	H. F. Dietz.
<i>Aspidiotus perniciosus</i> (San Jose scale) ..	<i>Chanomeles cathayensis</i> (fruit) ..	China (1) .....	H. L. Sanford.
<i>Aspidiotus subsimilis</i> (scale insect) ..	? .....	Antigua (1) .....	E. R. Sasscer.
<i>Aspidiotus</i> sp. (scale insect) .....	Avocado .....	Guatemala (2) .....	H. F. Dietz.
Do .....	do .....	Guatemala (1) .....	H. Morrison.
Do .....	do .....	do .....	H. L. Sanford.
Do .....	Avocado budsticks .....	do .....	Do.
Do .....	Mabolo cuttings .....	Philippine Islands (1) ..	J. R. Horton.
Do .....	Shrub, malvaceous .....	Guatemala (1) .....	H. F. Dietz.
<i>Balaninus</i> sp. (Curculionidæ) .....	<i>Quercus</i> sp. ....	China (1) .....	H. L. Sanford.
<i>Brachycera</i> (unknown) (Diptera-suborder Orthorrhapha) ..	<i>Paradanthus chinensis</i> .....	Holland (1) .....	H. F. Dietz.
<i>Bruchus chinensis</i> (weevil) .....	Beans .....	China (1) .....	H. Morrison, H. F. Dietz.
Do .....	Cowpeas .....	India (1) .....	J. R. Horton.
<i>Bruchus obtectus</i> (bean weevil) .....	Mulatinho beans .....	Brazil (1) .....	Do.
<i>Bruchus pisorum</i> (pea weevil) .....	<i>Fisum fulvum</i> .....	Palestine (1) .....	H. F. Dietz.
<i>Bruchus prosopis</i> (mesquite weevil) ..	<i>Prosopis juliflora</i> blanco .....	Argentina (2) .....	Do.
Do .....	<i>Prosopis juliflora</i> negro .....	Argentina (1) .....	H. L. Sanford.
<i>Bruchus quadrimaculatus</i> (weevil) ..	Cowpeas .....	Curacao, D. W. I. (1) ..	J. R. Horton.
<i>Bruchus</i> sp. (weevil) .....	<i>Acacia spadicigera</i> .....	Mexico (1) .....	Do.
Do .....	Beans .....	Argentina (2) .....	Do.
<i>Bruchus</i> sp. (weevil) (eggs) .....	do .....	India (1) .....	Do.
<i>Bruchus</i> sp. ....	Cucurbitacea vine .....	Venezuela (1) .....	Do.
Do .....	<i>Ipomea</i> sp. ....	do .....	Do.
Do .....	<i>Koelreuteria bipinnata</i> .....	China (1) .....	Do.
<i>Bruchus</i> sp. (weevil) .....	<i>Phaseolus angularis</i> .....	do .....	E. R. Sasscer.
Do .....	<i>Prosopis juliflora</i> .....	Argentina (1) .....	H. L. Sanford.
Do .....	Vetch, yellow .....	Costa Rica (1) .....	E. R. Sasscer.
Do .....	<i>Vigna sinensis</i> .....	China (2) .....	Do.
Do .....	<i>Zizyphus mistol</i> .....	Argentina (1) .....	H. L. Sanford.
<i>Bryobia pratensis</i> (clover mite) (eggs) ..	Lilac .....	Holland (1) .....	H. F. Dietz.
<i>Calandra granaria</i> (granary weevil) ..	Barley .....	China (2) .....	J. R. Horton.
Do .....	Barley, black rice .....	China (1) .....	H. F. Dietz.
Do .....	Wheat .....	Australia (1) .....	Do.
<i>Calandra oryza</i> (rice weevil) .....	Barley .....	China (2) .....	J. R. Horton.
Do .....	Barley, black rice .....	China (1) .....	H. F. Dietz.
Do .....	Maiz amarga (bitter corn) .....	Argentina (1) .....	J. R. Horton.
Do .....	Rice .....	Haiti (2) .....	Do.
Do .....	<i>Quercus rex</i> .....	China (1) .....	Do.

## List, by States, of pests collected—Continued.

[The number in parentheses following name of country indicates the number of times reported.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
DISTRICT OF COLUMBIA—continued.			
Insects—Continued.			
Calandra oryza (rice weevil).....	Quercus sp.....	China (1).....	H. F. Deitz.
Do.....	Zea mays.....	Haiti (1).....	J. R. Horton.
Do.....	do.....	South Africa (1)...	E. R. Sasser.
Cardiastethus assimilis (Anthoco- ridæ).	Acacia villosa.....	Curacao, D. W. I. (1).	H. L. Sanford.
Carpophilus hemipterus (Nitidu- lidæ).	Persea americana.....	Guatemala (1)....	Do.
Carpophilus humeralis (Nitiduli- dæ).	Chayotes.....	Reunion (1).....	D. G. Tower.
Catorama sp. (Ptinidæ).....	Beans.....	Curacao, D. W. I. (1).	J. R. Horton.
Caulophilus latinasus (broad-nosed grain weevil).	Avocado.....	Guatemala (1)....	Do.
Do.....	Persea americana.....	do.....	Do.
Cecidomyiid.....	Eugenia sp.....	Paraguay (1).....	Do.
Cerataphis lataniae (palm aphid)....	Orchid.....	Venezuela (1).....	Do.
Ceroplastes floridensis (Florida wax scale).	Citrus hystrix.....	Philippine Is- lands (1).	H. L. Sanford.
Ceroplastes rusci (scale insect).....	Ficus sp.....	Spain (1).....	H. Morrison, H. F. Dietz.
Chionaspis sp. (scale insect).....	Melia azedarach.....	China (1).....	H. L. Sanford.
Chrysomphalus aonidum (Florida red scale).	Pandanus rockii.....	Hawaii (1).....	J. R. Horton.
Do.....	Pandanus sp.....	do.....	Do.
Chrysomphalus aurantii (red scale of California).	Nipa palm.....	Philippine Is- lands (1).	H. Morrison, H. F. Dietz.
Do.....	Solanus rondletii.....	Egypt (1).....	H. L. Sanford.
Chrysomphalus dictyospermi (scale insect).....	Avocado.....	Honduras (1).....	Do.
Coccotrypes dactyliperda (weevil)....	Nannorhops ritchieana (palm seed).	India (1).....	Do.
Coccus sp. (scale insect).....	Avocado.....	Guatemala (1)....	H. Morrison.
Do.....	do.....	do.....	H. L. Sanford.
Diaspis boisduvalii (scale insect)....	Orchid.....	Venezuela (2).....	J. R. Horton.
Diaspis bromeliae (scale insect)....	Pineapple.....	Antigua, B. W. I. (1).	H. F. Dietz.
Diaspis pentagona (West Indian peach scale).	Cherry.....	Japan (1).....	H. F. Deitz, H. Morrison.
Do.....	Juglans portoricensis.....	Porto Rico (1)....	J. R. Horton.
Diaspis sp. (scale insect).....	Avocado.....	Guatemala (1)....	H. F. Dietz.
Do.....	Mobolo cuttings.....	Philippine Is- lands (1).	J. R. Horton.
Diatraea saccharalis (sugar-cane borer).	Saccharum.....	Virgin Islands (1)	Do.
Do.....	Saccharum cuttings.....	Trinidad (1).....	Do.
Echocerus maxillosus (Tenebrion- idæ).	Persea americana.....	Guatemala (1)....	Do.
Gryllotalpa africana (Gryllidæ)....	Theobroma cacao.....	Java (1).....	H. L. Sanford.
Hemichionaspis aspidistrae (aspi- distra scale).	Aspidistra.....	Bermuda (1).....	G. F. Moznette.
Holoparamesus sp. (Latridiidæ)....	Ananas sativus.....	Straits Settle- ments (1).	H. Morrison, H. L. San- ford, H. F. Dietz.
Do.....	Coruba (palm seed).....	Curacao, D. W. I. (1).	J. R. Horton.
Howardia biclavus (mining scale)....	Erimocitrus glauca.....	Australia (1).....	H. L. Sanford.
Iridomyrmex sp. (ant).....	Theobroma cacao.....	Java (1).....	H. L. Sanford, H. F. Dietz.
Ischnaspis longirostris (scale insect)	Pandanus rockii.....	Hawaii (1).....	J. R. Horton.
Do.....	Pandanus sp.....	do.....	Do.
Ischnoptera sp. (roach).....	Pineapple.....	Antigua, B. W. I. (1).	H. Morrison.
aemophloeus pusillus (Cucujidæ).	Chinese walnuts.....	China (1).....	H. F. Dietz.
aemophloeus sp. (Cucujidæ).....	Polygonacea.....	Curacao, D. W. I. (1).	H. L. Sanford.

## List, by States, of pests collected—Continued.

[The number in parentheses following name of country indicates the number of times reported.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
<b>DISTRICT OF COLUMBIA—continued.</b>			
<b>Insects—Continued.</b>			
<i>Lasioderma serricorne</i> (cigarette beetle).	<i>Amygdalus</i> seeds.....	Italy (1).....	J. R. Horton, H. L. Sanford.
<i>Lathropus vernalis</i> (Cucujidæ)....	<i>Grevillea banksii</i> .....	do.....	J. R. Horton.
<i>Lecanium corni</i> (European fruit Lecanium).	<i>Ceanothus hybridus</i> .....	England (1).....	H. L. Sanford, H. F. Dietz.
Do.....	<i>Ribes robustum</i> .....	do.....	H. Morrison.
Do.....	<i>Styrax dasyanthemum</i> .....	France (1).....	J. R. Horton.
<i>Lecanium</i> sp. (scale insect).....	<i>Avocado</i> .....	Guatemala (1).....	E. R. Sasser.
Do.....	do.....	do.....	E. R. Sasser, H. L. Sanford.
Do.....	do.....	Honduras (1).....	H. L. Sanford.
Do.....	<i>Pyrus</i> sp.....	Spain (1).....	H. Morrison, H. F. Dietz.
<i>Lepidosaphes beckii</i> (purple scale)	<i>Citrus nobilis deliciosa</i> .....	Brazil (1).....	H. L. Sanford.
<i>Lepidosaphes ficus</i> (scale insect)...	<i>Ficus</i> sp.....	Spain (1).....	H. Morrison, H. F. Dietz.
<i>Lepidosaphes mimosarum</i> (scale insect).	.....	Antigua, B. W. I. (1).	E. R. Sasser.
<i>Lepidosaphes ulmi</i> (oyster-shell scale).	<i>Ceanothus hybridus</i> .....	England (1).....	H. L. Sanford, H. F. Dietz.
Do.....	<i>Ribes robustum</i> .....	do.....	H. Morrison.
Do.....	<i>Ribes</i> sp.....	France (2).....	H. L. Sanford.
<i>Lepidosaphes</i> sp. (scale insect)....	<i>Pyrus</i> .....	China (1).....	J. R. Horton.
Do.....	Shrub. malvaceous.....	Guatemala (1).....	H. F. Dietz.
<i>Lonchæa</i> sp. (Sapromyzidæ).....	Chayotes.....	Mexico (1).....	H. Morrison.
<i>Lyctus</i> sp. (borer) (Bostrychidæ)...	Big sour pear.....	China (1).....	H. F. Dietz.
<i>Morganella maskelli</i> (scale insect).	Mabolo cuttings.....	Philippine Islands (1).	J. R. Horton.
<i>Ostoma guanii</i> (Nitidulidæ).....	Bean.....	Curacao, D. W. I. (1).	H. Morrison.
<i>Oxycarenus hyalinipennis</i> (Hemipteron) (dusky cotton bug).	<i>Gossypium</i> .....	Algeria (1).....	H. L. Sanford.
<i>Parlatoria pergandei</i> var. <i>theæ</i> (chaff scale).	Plum.....	India (1).....	H. Morrison.
<i>Periplaneta australasie</i> (Australian roach).	<i>Phormium tenax</i> .....	Azores Islands (1)	J. R. Horton.
<i>Periplaneta</i> sp. (roach).....	Orchid.....	Venezuela (1).....	Do.
<i>Pheidole anastasi</i> (ant).....	<i>Phormium tenax</i> .....	Azores Islands (1)	Do.
<i>Pheidole megacephala</i> (ant).....	<i>Theobroma cacao</i> .....	Java (1).....	H. L. Sanford, H. F. Dietz.
<i>Phenacaspis</i> sp. (scale insect).....	<i>Acer trifidum</i> .....	China (1).....	H. L. Sanford.
<i>Plagiolepis mactavishi</i> (ant).....	Bamboo.....	Hawaii (1).....	J. R. Horton.
<i>Plecia fulvicollis</i> (Bibionidæ).....	<i>Theobroma cacao</i> (in soil around roots).	Java (1).....	H. F. Dietz.
<i>Polyrhachis dives</i> (ant).....	<i>Saccharum</i> seeds.....	Philippine Islands (1).	J. T. Rogers.
<i>Prolabia arachidis</i> (Forficulidæ)...	<i>Persea americana</i> .....	Guatemala (1).....	J. R. Horton, H. L. Sanford, H. F. Dietz.
<i>Pseudococcus adonidum</i> (long-tailed mealy bug).	Chayota edulis.....	Madeira (1).....	E. R. Sasser.
<i>Pseudococcus bromelie</i> (pine-apple mealy bug).	<i>Ananas pernambuco</i> .....	Straits Settlements (1).	H. L. Sanford, H. F. Dietz.
Do.....	<i>Ananas saranak</i> .....	do.....	Do.
Do.....	<i>Ananas</i> .....	Antigua, B. W. I. (1).	H. Morrison, H. F. Dietz.
<i>Pseudococcus citri</i> (citrus mealy bug).	Chayota edulis.....	Egypt (1).....	H. Morrison.
Do.....	<i>Saccharum</i> .....	Cuba (1).....	H. L. Sanford.
<i>Pseudococcus sacchari</i> (sugar-cane mealy bug).	do.....	Jamaica (2).....	H. Morrison, H. F. Dietz.
Do.....	do.....	Trinidad (1).....	H. L. Sanford, J. R. Horton.
<i>Pseudococcus</i> sp. (mealy bug)....	Chayota edulis.....	Egypt (1).....	H. Morrison.
Do.....	do.....	St. Lucia, W. I. (1).	H. L. Sanford.
Do.....	<i>Saccharum</i> .....	Jamaica (1).....	H. F. Dietz.

## List, by States, of pests collected—Continued.

[The number in parentheses following name of country indicates the number of times reported.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
<b>DISTRICT OF COLUMBIA—continued.</b>			
<b>Insects—Continued.</b>			
Ptinid.....	Cuzco corn.....	Peru (1).....	H. L. Sanford.
Ptinus brunneus (Ptinidae).....	Pistacia terebinthus.....	Palestine (1).....	H. F. Dietz.
Pyralid larva.....	Tillandsia.....	Argentina (1).....	H. L. Sanford.
Rhizoglyphus phylloxerae (mite).....	Avocado seeds.....	Cuba (1).....	E. R. Sasscer, H. L. Sanford.
(Tyroglyphidae).			
Rhopalosiphum sp. (aphid).....	Dianthus japonica.....	Japan (1).....	H. Morrison.
Saissetia oleae (black scale).....	Chayota edulis.....	St. Lucia, W. I. (1).....	H. L. Sanford.
Sciara sp. (Mycetophilidae).....	do.....	do.....	Do.
Do.....	Lilac.....	Holland (1).....	H. F. Dietz, K. B. Brown.
Do.....	Paradanthus chinensis.....	do.....	H. F. Dietz.
Sesia tipuliformis (Sesiidae).....	Ribes sp.....	France (1).....	H. L. Sanford.
Silvanus advena (Cucujidae).....	In charcoal around Saccharum cuttings.....	Hawaii (1).....	H. F. Dietz.
Do.....	Persea americana.....	Guatemala (1).....	J. R. Horton.
Do.....	Pithecolobium dulce.....	Jamaica (1).....	Do.
Silvanus bidentatus (Cucujidae).....	Persea americana.....	Guatemala (1).....	H. F. Dietz.
Silvanus surinamensis (saw-toothed grain beetle).	Pomelo seed.....	China (1).....	J. R. Horton.
Sitodrepa panicea (Anobiidae).....	Peas.....	Argentina (1).....	Do.
Sitotroga cerealella (Angoumois grain moth).	Maiz amarga (bitter corn).....	do.....	Do.
Do.....	Rice.....	Haiti (1).....	Do.
Do.....	Zea mays.....	do.....	Do.
Solenophorus sp. (Cerambycidae).....	Leguminous plant.....	Curacao, D.W. I. (1).....	H. Morrison.
Solenopsis geminata (ant).....	Grass.....	Argentina (1).....	H. L. Sanford.
Do.....	Sorghum.....	Curacao, D. W. I. (1).....	J. R. Horton.
Stephanoderus sp. (Scolytidae).....	Chuparon.....	Venezuela (1).....	H. L. Sanford.
Do.....	Hibiscus esculentus.....	Curacao, D. W. I. (1).....	H. Morrison.
Do.....	Manzanula seeds.....	do.....	H. L. Sanford.
Targionia sacchari (scale insect).....	Saccharum cuttings.....	Virgin Islands (1).....	J. R. Horton.
Tetramorium guineense (ant).....	Avocado seeds.....	Cuba (1).....	E. R. Sasscer, H. L. Sanford.
Tetramorium sp. (ant).....	Theobroma cacao.....	Java (1).....	H. L. Sanford, H. F. Dietz.
Tortricid (moth).....	Corylus.....	England (1).....	H. L. Sanford.
Trialeurodes vaporariorum (greenhouse white fly).	Digitalis leaves.....	Colombia (1).....	J. R. Horton.
Do.....	Ribes sp.....	Canada (1).....	Do.
Tribolium ferrugineum (rust-red flour beetle).	Tecoma ipe.....	Argentina (1).....	H. L. Sanford.
Trigonogenius peruvianus (Ptinidae).	Cuzco corn.....	Peru (1).....	Do.
Trigonogenius sp. (Ptinidae).....	do.....	do.....	Do.
Triphleps sp. (Anthoridae).....	Persea americana.....	Guatemala (1).....	J. R. Horton.
Urodon sp. (Curculionidae).....	Gladiolus.....	South Africa (1).....	H. F. Dietz.
<b>Diseases:</b>			
Botrytis sp.....	Chayota edulis.....	Madeira (1).....	W. H. Weston.
Botrytis, sclerotia of.....	Lilac.....	Holland (1).....	H. F. Dietz.
Cercospora beticola.....	Beta vulgaris (sugar beet).....	Germany (1).....	J. T. Rogers.
Claviceps sp.....	Spodiopogon sibiricus.....	China (1).....	Do.
Colletotrichum fulcatum.....	Saccharum.....	Cuba (2).....	G. R. Lyman.
Do.....	do.....	Cuba (1).....	J. T. Rogers.
Colletotrichum gloeosporioides.....	Avocado.....	Guatemala (3).....	Do.
Do.....	do.....	Guatemala (8).....	W. H. Weston.
Do.....	Avocado seed.....	Peru (1).....	J. T. Rogers.
Colletotrichum sp.....	Vanilla sp.....	Costa Rica (2).....	Do.
Diplodia sp.....	Chayota edulis.....	St. Lucia, W. I. (1).....	R. Kent Beattie.
Do.....	Nipa sp.....	Philippine Islands (1).....	W. H. Weston.
Fusarium solani.....	Colocasia esculenta (tubers).....	Egypt (1).....	Do.
Do.....	Colocasia sp.....	Egypt (2).....	Do.

## List, by States, of pests collected—Continued.

[The number in parentheses following name of country indicates the number of times reported.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
<b>DISTRICT OF COLUMBIA—continued.</b>			
<b>Diseases—Continued.</b>			
Fusarium sp.....	Chayota edulis.....	Madeira (1).....	W. H. Weston.
Helminthosporium sp.....	Rice.....	Costa Rica (1).....	Do.
Heterodera radicicola.....	Corylus.....	England (1).....	Do.
Melanconium sacchari.....	Saccharum.....	Barbados, B. W. I. (1).	J. T. Rogers.
Do.....	do.....	China (1).....	Do.
Do.....	do.....	Jamaica (5).....	G. R. Lyman.
Pestalozzia sp.....	Achradelpha viridis.....	Guatemala (1).....	J. T. Rogers.
Phoma betæ.....	Beta vulgaris (sugar beet).....	Germany (1).....	Do.
Phoma sp.....	Orchid.....	Curaçao, D. W. I. (1).	W. H. Weston.
Sclerotia.....	Nephelium tomentosum.....	Italy (1).....	J. T. Rogers.
Septoria sp.....	Pennisetum cenchroides.....	Philippine Islands (1).	W. H. Weston.
Uromyces appendiculatus.....	Vigna sinensis.....	China (1).....	J. T. Rogers.
Volutella sp.....	(?).....	Costa Rica (1).....	G. R. Lyman.
<b>FLORIDA.</b>			
<b>Insects:</b>			
Aleyrodes sp. (white fly).....	Azalea.....	Belgium (1).....	E. W. Berger.
Bephrata cubensis (anona seed chalcid).	Soursop.....	Cuba (1).....	E. L. Gehry.
Chrysomphalus aonidum (Florida red scale).	Palm.....	do.....	Do.
Chrysomphalus dictyospermi (scale insect).	Citrus.....	Spain (1).....	A. C. Brown.
Cylas formicarius (sweet-potato weevil).	Sweet potato.....	Cuba (1).....	D. W. Grimes.
Diatraea sp. (sugar-cane borer).....	Saccharum.....	do.....	E. L. Gehry.
Lepidosaphes gloverii (long scale).	Citrus.....	do.....	Do.
Pseudaonidia articulatus (scale insect).	Croton.....	do.....	Do.
Do.....	Pandanus.....	do.....	Do.
Do.....	Tamarind.....	do.....	A. C. Brown.
Do.....	Unknown plant.....	do.....	Do.
Pseudococcus sp. (mealy bug).....	Shrub.....	do.....	E. L. Gehry.
Red spider.....	Rose.....	do.....	Do.
Sciara sp. (Mycetophilidæ).....	Cycas stems.....	Japan (1).....	D. W. Grimes.
Do.....	Cycas revoluta stems.....	do.....	Chas. M. Hunt.
Toxotrypana curvicauda (papaya fruit fly).	Papaya.....	Cuba (1).....	E. L. Gehry.
Trialeurodes sp. (white fly).....	Davallia gracillimum.....	Australia (1).....	E. W. Berger.
<b>Disease:</b>			
Colletotrichum gloeosporioides.....	Citrus.....	Cuba (1).....	E. L. Gehry.
<b>GEORGIA.</b>			
<b>Insects:</b>			
Coccus hesperidum (soft brown scale).	Camellia.....	France (1).....	W. V. Reed.
Do.....	do.....	do.....	W. F. Turner.
<b>HAWAII.</b>			
<b>Insects:</b>			
Cerataphis lataniæ (palm aphid).....	Orchid.....	England (1).....	E. M. Ehrhorn.
Do.....	do.....	Guatemala (1).....	D. B. Kuhne.
Coccus hemisphaericum (scale insect).	do.....	Philippine Islands (1).	E. M. Ehrhorn.
Curculionid.....	do.....	Guatemala (1).....	D. B. Kuhne.
<b>INDIANA.</b>			
<b>Insects:</b>			
Emphytus cinctus (sawfly) (larvæ).	Rose stocks.....	England (1).....	J. B. Demoree.
Notolophus antiqua (European tussock moth).	Acer platanoides.....	Holland (1).....	J. B. Demoree, P. T. Ullman.



## List, by States, of pests collected—Continued.

[The number in parentheses following name of country indicates the number of times reported.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
<b>INDIANA—continued.</b>			
<b>Insects—Continued.</b>			
Colletotrichum gloeosporioides.....	Rhododendron.....	Holland (1).....	J. B. Demoree, R. E. Snodgrass, M. E. Kimsey, P. T. Ulman.....
Coniothyrium sp.....	Lilac.....	France (1).....	R. E. Snodgrass, J. B. Demoree.
Exobasidium sp.....	Azalea.....	Belgium (1).....	M. E. Kimsey, P. T. Ulman.
Frankia alni.....	Elaeagnus longipes.....	France (1).....	J. B. Demoree, P. T. Ulman.
Gloeosporium berberidis.....	Berberis.....	do.....	J. B. Demoree, P. T. Ulman.
<b>IOWA.</b>			
<b>Insects:</b>			
Apatela auricoma (dagger moth) (pupa).	Berberis darwini.....	do.....	J. G. Hester, D. A. Ricker.
Do.....	White honeysuckle.....	do.....	H. Ness.
<b>Diseases:</b>			
Bacterium tumefaciens (crown gall).	Cherry.....	do.....	J. G. Hester, D. A. Ricker.
Do.....	Fruit stock seedlings.....	do.....	Do.
<b>LOUISIANA.</b>			
<b>Insects:</b>			
Eriophyes sp. (mite).....	Fern.....	Cuba (1)	Ed. Foster.
Pseudococcus adonidum (long-tailed mealy bug).	Mango.....	do.....	Do.
<b>MAINE.</b>			
<b>Insect:</b>			
Lepidosaphes ulmi (oyster-shell scale).	Lilac.....	France (1).....	F. H. Dudley.
<b>MARYLAND.</b>			
<b>Insect:</b>			
Porthetria dispar (gipsy moth) (two egg masses).	(?).....	do.....	W. C. Travers.
<b>MASSACHUSETTS.</b>			
<b>Insects:</b>			
Elaterid (wireworm).....	Juniper.....	Japan (1).....	L. H. Taylor.
Gracilaria sp. (leaf miner).....	Azalea.....	Belgium (1).....	R. H. Allen.
Lecanium corni (European fruit Lecanium).	Fontanesia phillyræoides.....	France (1).....	L. H. Taylor.
Lepidosaphes ulmi (oyster-shell scale).	Apple.....	England (1).....	R. H. Allen.
Porthesia similis (Arctiidae).....	Laburnum.....	Holland (1).....	Do.
Saperda populnea (Cerambycidae).....	Populus sp.....	France (1).....	S. C. Vinal.
<b>Disease:</b>			
Gymnosporangium japonicum.....	Juniper.....	Japan (1).....	L. H. Taylor, P. Simmons, R. H. Allen.
<b>MISSOURI.</b>			
<b>Insects:</b>			
Lepidosaphes ulmi (oyster-shell scale).	Apple.....	England (1).....	K. C. Sullivan.
Do.....	Pear.....	do.....	Do.
<b>Diseases:</b>			
Bacterium tumefaciens (crown gall).	Apple seedlings.....	France (1).....	Do.
Bacterium tumefaciens (hairy root).	do.....	do.....	Do.

## List, by States, of pests collected—Continued.

[The number in parentheses following name of country indicates the number of times reported.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
<b>NEW JERSEY.</b>			
Insects:			
Aradid.....	Orchid.....	Venezuela (1).....	H. B. Weiss.
Aspidiotus perniciosus (San Jose scale).	Apple.....	England (1).....	G. L. Walters.
Bryobia pratensis (clover mite) (eggs).	.....do.....	England (2).....	Do.
Cardiastethus tropicalis (Anthocoridae).	Orchid.....	Colombia (1).....	H. B. Weiss, R. S. Patterson.
Chrysomphalus perseæ (scale insect).	.....do.....	.....do.....	G. L. Walters.
Do.....	.....do.....	Guatemala (1).....	Do.
Do.....	.....do.....	Mexico (2).....	Do.
Do.....	.....do.....	Venezuela (1).....	Do.
Cryptocerus sp. (ant).....	.....do.....	Colombia (1).....	H. B. Weiss, R. S. Patterson.
Eriosoma lanigera (woolly asphis)..	Apple.....	England (2).....	G. L. Walters.
Hemichionaspis aspidistrae (aspidistra scale).	Aspidistra.....	Japan (1).....	Do.
Isosoma orchidearum (Cattleya fly; adult).	Orchid.....	Colombia (1).....	H. B. Weiss, R. S. Patterson.
Lepidosaphes ulmi (oyster-shell scale).	Apple.....	England (2).....	G. L. Walters.
Do.....	Fruit stock.....	Holland (1).....	Do.
Leptobyrsa rhododendri (Tingitid) (eggs).	Rhododendron.....	.....do.....	H. B. Weiss.
Litargus sp. (Mycetophagidae)....	Orchid.....	Colombia (1).....	Do.
Odontomachus hæmatoda (ant).....	.....do.....	.....do.....	H. B. Weiss, R. S. Patterson.
Parallelodiplosis cattleyæ (Cattleya midge) (Cecidomyiidae).	.....do.....	Guatemala (1).....	G. L. Walters.
Do.....	Orchid, wild.....	Mexico (1).....	Do.
Periplaneta australasie (Australian roach).	Orchid.....	Colombia (1).....	H. B. Weiss, R. S. Patterson.
Prenolepis (Nylanderia) fulva (ant)	.....do.....	.....do.....	Do.
Pseudaonidia pæoniæ (scale insect).	Azalea.....	Japan (1).....	C. A. Schwarze.
Ptinus sp. (Ptinidae).....	Orchid.....	Colombia (1).....	H. B. Weiss.
Silvanus advena (Cucujidae).....	.....do.....	.....do.....	Do.
Solenonotus nigromarginatus (Anthocoridae).	.....do.....	.....do.....	H. B. Weiss, R. S. Patterson.
Tapinoma melanocephalus Fabr. dark var. (ant).	.....do.....	.....do.....	Do.
Telephanus (two unknown species) (Cucujidae).	.....do.....	.....do.....	H. B. Weiss.
Tenebrionid.....	.....do.....	.....do.....	H. B. Weiss, R. S. Patterson.
Tings eggs (Tingitidae).....	Rhododendron.....	England (1).....	G. L. Walters.
Diseases:			
Gymnosporangium sp.....	Dwarf red cedar.....	Japan (1).....	C. A. Schwarze.
Sclerotinia fructigena (brown rot cankers).	Peach.....	Scotland (1).....	Do.
<b>NEW YORK CITY (FEDERAL INSPECTION).</b>			
Insects:			
Aspidiotus lataniæ (scale insect)...	Dracaena canes.....	Brazil (1).....	H. B. Shaw.
Do.....	Palm.....	.....do.....	Do.
Brachymyrmex heeri depilis (ant).	Thunbergia grandiflora, in soil around.	Trinidad (1).....	Do.
Brachymyrmex sp. (ant).....	Orchid root.....	.....do.....	D. G. Tower.
Calandra granaria (granary weevil).	Coccus weddelliana (seeds)..	Brazil (1).....	H. B. Shaw.
Camponotus sp. (ant).....	Orchid, wild.....	Guatemala (1).....	Do.
Chrysomphalus perseæ (scale insect).	Palm.....	Brazil (1).....	Do.

## List, by States, of pests collected—Continued.

[The number in parentheses following name of country indicates the number of times reported.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
NEW YORK CITY (FEDERAL INSPECTION)—continued.			
Insects—Continued.			
<i>Chrysomphalus personatus</i> (masked scale).	Orchid.....	Colombia (1).....	H. B. Shaw.
<i>Cryptocerus</i> sp. (ant).....	Orchid, wild.....	Guatemala (1).....	Do.
<i>Cryptomyrmex calvini</i> (ant).....	Orchid.....	Colombia (1).....	Do.
<i>Cryptorhynchid</i> .....	<i>Saraca indica</i> .....	Trinidad (1).....	Do.
<i>Cylas formicarius</i> (sweet-potato weevil).	Sweet potato.....	Cuba (1).....	D. G. Tower.
<i>Cyphomyrmex</i> sp. (ant).....	Orchid roots.....	Trinidad (1).....	Do.
<i>Diaspis boisduvalii</i> (scale insect).....	Cocoanut palm.....	Bahama Islands (1).....	H. B. Shaw.
Do.....	<i>Laurus nobilis</i> .....	Mexico (1).....	Do.
Do.....	Orchid.....	Colombia (1).....	Do.
Do.....	do.....	Panama (1).....	D. G. Tower.
Do.....	do.....	Venezuela (1).....	H. B. Shaw.
<i>Diaspis echinocacti</i> (scale insect).....	<i>Cereus</i> sp. ....	Argentina (1).....	Do.
Do.....	<i>Echinopsis</i> sp. ....	do.....	Do.
<i>Dinex americana</i> (Forficulidæ).....	Orchid.....	Colombia (1).....	Do.
<i>Dolichoderus bispinosus</i> (ant).....	Orchid, wild.....	Guatemala (1).....	Do.
<i>Endrosis lacteella</i> (Tineæ).....	Burlap bagging.....	France (1).....	D. G. Tower.
<i>Entermes</i> sp. (termites).....	Orchid support of dead wood.....	Trinidad (1).....	Do.
<i>Formica</i> sp. (ant).....	?	Scotland (1).....	H. B. Shaw.
<i>Hemichionaspis minor</i> (scale insect).....	Herbaceous plant.....	Brazil (1).....	Do.
<i>Ischnaspis longirostris</i> (scale insect).....	Palm.....	do.....	K. B. Brown.
Do.....	do.....	do.....	H. B. Shaw.
<i>Japyx</i> sp. (Thysanura).....	Orchid.....	Trinidad (1).....	D. G. Tower.
<i>Lepidosaphes</i> sp. (scale insect).....	Croton.....	Jamaica (1).....	H. B. Shaw.
<i>Lepisma saccharina</i> (silverfish).....	Orchid.....	Colombia (1).....	Do.
<i>Parlatoria proteus</i> (scale insect).....	Palm.....	Brazil (1).....	Do.
<i>Pheidole</i> sp. (ant).....	Orchid.....	Venezuela (1).....	Do.
Phycitid larva.....	do.....	Colombia (1).....	Do.
<i>Pinnaspis buxi</i> (scale insect).....	Palm.....	Brazil (1).....	Do.
<i>Procryptocerus</i> sp. (ant).....	Orchid.....	Venezuela (1).....	Do.
<i>Pseudaonidia articulatus</i> (scale insect).....	Croton.....	Cuba (1).....	Do.
<i>Pseudomops</i> sp. (Blattariæ).....	Orchid.....	Colombia (1).....	Do.
<i>Pteronidea leucotrochus</i> (sawfly) (cocoon).....	Currant bushes.....	Holland (1).....	K. B. Brown.
<i>Pycnoscelus surinamensis</i> (Pycnoscelus).....	Orchid.....	Colombia (1).....	H. B. Shaw.
Pyralid larvæ.....	do.....	Colombia (2).....	Do.
<i>Saissetia hemisphaerica</i> (hemispherical scale).....	Palm.....	Brazil (1).....	K. B. Brown.
<i>Tagalis</i> sp. (Reduviidæ).....	Orchid.....	Venezuela (1).....	H. B. Shaw.
<i>Targionia biformis</i> (scale insect).....	do.....	Colombia (1).....	Do.
<i>Tenthecoris bicolor</i> (Miridæ).....	do.....	do.....	Do.
<i>Toxoptera coffeæ</i> (coffee aphid).....	Café nacional.....	Brazil (1).....	Do.
<i>Vinsonia stellifera</i> (star scale).....	Orchid.....	Panama (1).....	D. G. Tower.
<i>Wasmannia auropunctata</i> (ant).....	do.....	Colombia (2).....	H. B. Shaw.
<i>Zophobas morio</i> (Tenebrionidæ).....	do.....	Colombia (1).....	Do.
Diseases:			
<i>Acrostalagmus</i> .....	Cactus.....	Argentina (1).....	Do.
<i>Hyalopus</i> .....	do.....	Paraguay (1).....	Do.
<i>Lasiodiplodia</i> .....	Ficus stems.....	Cuba (1).....	Do.
<i>Penicillium</i> .....	Cactus.....	Argentina (1).....	Do.
<i>Phoma</i> sp. ....	do.....	do.....	Do.
<i>Septoria oleandrina</i> .....	Oleander.....	Bermuda (1).....	Do.
<i>Verticillium</i> .....	Cactus.....	Argentina (1).....	Do.

## List, by States, of pests collected—Continued.

[The number in parentheses following name of country indicates the number of times reported.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
<b>NEW YORK.</b>			
Insects:			
<i>Aporia crataegi</i> (white tree Pierid) (nests).	Apple seedlings.....	France (2).....	J. A. Maney.
Do.....	Fruit-tree stocks.....	France (1).....	C. H. Darrow.
Do.....	Pear seedlings.....	do.....	(?)
Do.....	Plum seedlings.....	do.....	C. H. Darrow.
Do.....	do.....	do.....	P. M. Eastman.
<i>Eriosoma lanigera</i> (woolly aphis).....	Apple.....	do.....	J. A. Maney.
Do.....	Apple seedling.....	do.....	Do.
Do.....	Apple seedlings, French.....	do.....	Do.
<i>Euproctis chrysorrhoea</i> (brown-tail moth) (nest).	Apple.....	do.....	J. A. Thomson.
<i>Lasiocampid</i> .....	Quince seedlings.....	do.....	J. A. Maney.
<i>Notolophus antiqua</i> (European tussock moth) (egg masses).	(?).....	Holland (1).....	J. A. Thomson.
Diseases:			
<i>Bacterium tumefaciens</i> (crown gall).	Lilac.....	France (1).....	T. J. Rupert.
<i>Bacterium tumefaciens</i> (hairy root).	Apple.....	do.....	J. A. Maney.
Do.....	Apple seedlings.....	do.....	(?)
<i>Gloeosporium apocryptum</i> .....	Norway maple.....	Holland.....	J. A. Maney.
<b>NORTH CAROLINA.</b>			
Insects:			
<i>Coccus hesperidum</i> (soft brown scale).	Bay.....	Belgium (1).....	S. C. Clapp.
<i>Eriosoma lanigera</i> (woolly aphis).	Fruit stocks.....	France (1).....	I. M. Hawley.
Disease:			
<i>Bacterium tumefaciens</i> (crown gall).	(?).....	do.....	Do.
<b>OHIO.</b>			
Insects:			
<i>Apatela auricoma</i> (dagger moth) (pupa).	Cherry.....	France (1).....	W. E. Evans, jr.
Do.....	Lilac.....	do.....	Do.
Do.....	Plum.....	do.....	R. Faxon, F. D. Hechathorn.
Do.....	Rose stocks.....	do.....	W. E. Evans, jr.
Do.....	Viburnum.....	do.....	Do.
Do.....	Weigelia rosea.....	do.....	Do.
<i>Monarthropalpus buxi</i> (box leaf miner).	Boxwood.....	do.....	E. W. Mendenhall.
Diseases:			
<i>Bacterium tumefaciens</i> (crown gall).	Fruit stocks.....	do.....	H. E. Evans.
Do.....	Manetti.....	England (1).....	F. D. Hechathorn, R. Faxon.
Do.....	Pear.....	France (1).....	Do.
Do.....	Plum.....	do.....	F. D. Hechathorn, R. Faxon, W. E. Evans, jr.
Do.....	(?).....	do.....	H. E. Evans.
<i>Bacterium tumefaciens</i> (hairy root).	Fruit stocks.....	do.....	Do.
Do.....	(?).....	do.....	Do.
<i>Pestalozzia guepini</i> .....	Rhododendron.....	Holland (1).....	C. H. Waid.
<b>PENNSYLVANIA.</b>			
Insects:			
<i>Aspidiotus britannicus</i> (scale insect).	Boxwood.....	England (1).....	F. M. Trimble.
<i>Aulacaspis rosae</i> (rose scale).....	Rose stocks.....	France (1).....	Do.
<i>Coccus hesperidum</i> (soft brown scale).	<i>Cercis japonica</i> .....	Japan (1).....	Do.
Do.....	<i>Sarcococca humilis</i> .....	England (1).....	Do.

## List, by States, of pests collected—Continued.

[The number in parentheses following name of country indicates the number of times reported.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
<b>PENNSYLVANIA—Continued.</b>			
<b>Insects—Continued.</b>			
<i>Diaspis boisduvalii</i> (scale insect)...	Cattleya.....	England (1).....	F. L. Holdridge.
Do.....	Cymbidiums.....	do.....	F. M. Trimble.
Do.....	Cypripediums.....	do.....	Do.
<i>Emphytus</i> sp. (sawfly) (larvæ).....	Azalea.....	Japan (1).....	Do.
<i>Eriosoma lanigera</i> (woolly aphis)...	Apple.....	France (1).....	J. N. Knull.
Do.....	do.....	do.....	M. E. Stray.
<i>Eucalymnatus tessellatus</i> (scale insect).	Orchid.....	England (1).....	F. M. Trimble.
<i>Glycyphana argyrosticta</i> (Lamellicornes).	(?).....	Japan (1).....	H. E. Backus.
<i>Lecanium persicae</i> (scale insect)...	Ampelopsis.....	France (1).....	F. M. Trimble.
<i>Lepidosaphes ulmi</i> (oyster-shell scale).	Boxwood.....	England (1).....	Do.
<i>Notolophus antiqua</i> (European tussock moth) (eggs).	Pear.....	France (1).....	M. E. Stray.
<i>Porthesia similis</i> (Arctiidæ).....	Rose.....	Holland (1).....	F. L. Holdridge.
<i>Pseudaonidia paeoniæ</i> (scale insect)	Azalea.....	Japan (4).....	H. E. Backus, F. M. Trimble.
Do.....	Azalea ledifolium rosæ.....	Japan (1).....	F. M. Trimble, F. L. Holdridge.
<i>Pseudococcus</i> sp. (mealybug).....	Azalea benigni.....	do.....	Do.
Do.....	<i>Cercis japonica</i> .....	do.....	F. M. Trimble.
Do.....	<i>Cytisus piasox</i> .....	England (1).....	Do.
Do.....	<i>Ilex fargesii</i> .....	do.....	Do.
Pyrilidæ.....	Fruit stocks.....	France (1).....	Do.
Pyrilidæ—subfamily Gallerinæ.....	Azalea.....	Japan (1).....	H. E. Backus.
<i>Saperda populnea</i> (Cerambycidæ).	<i>Populus boileana</i> .....	France (1).....	Do.
Tingitid eggs.....	<i>Rhododendron</i> .....	England (1).....	F. M. Trimble.
<b>Diseases:</b>			
<i>Bacterium tumefaciens</i> (crown gall).	Apple.....	France (1).....	M. E. Stray.
Do.....	Fruit stocks.....	do.....	H. E. Backus, F. M. Trimble.
Do.....	do.....	do.....	F. M. Trimble.
Do.....	<i>Prunus myrobalana</i> .....	do.....	J. N. Knull.
Do.....	Rose.....	Ireland (1).....	F. M. Trimble.
Do.....	<i>Syringa alba</i> .....	France (1).....	Do.
<i>Bacterium tumefaciens</i> (hairy robt).	Fruit stocks.....	do.....	H. E. Backus, F. M. Trimble.
<i>Exobasidium</i> sp.....	Azalea.....	Belgium (1).....	H. E. Taylor.
Fungus galls.....	<i>Juniperus chinensis</i> .....	Japan (1).....	F. M. Trimble, F. L. Holdridge.
<b>TEXAS</b>			
<b>Insects:</b>			
<i>Diaspis carueli</i> (juniper scale).....	Arbor-vitæ.....	France (1).....	E. L. Schostag.
Do.....	Irish juniper.....	do.....	Do.
<b>WASHINGTON (STATE).</b>			
<b>Insects:</b>			
<i>Agrilus</i> sp. (Buprestidæ).....	Chestnut trees.....	Japan (1).....	F. N. Rhodes, C. Mason.
<i>Pseudaonidia duplex</i> (scale insect).	Azalea.....	do.....	Do.
Do.....	Camellia.....	do.....	F. N. Rhodes.
<b>Disease:</b>			
<i>Pestalozzia</i> sp.....	(?).....	do.....	Do.
<b>WISCONSIN.</b>			
<b>Insect:</b>			
<i>Aspidiotus camelliae</i> (greedy scale).	Apple.....	France (1).....	S. B. Fracker.
<b>Diseases:</b>			
<i>Bacterium tumefaciens</i> (crown gall).	Lilac.....	do.....	E. D. Ball, S. B. Fracker.
<i>Pestalozzia guepini</i> .....	<i>Rhododendron</i> .....	Holland (1).....	S. B. Fracker.

## LIST OF CURRENT QUARANTINE AND OTHER RESTRICTIVE ORDERS.

## QUARANTINE ORDERS.

The numbers assigned to these quarantines indicate merely the chronological order of issuance of both domestic and foreign quarantines in one numerical series. The quarantine numbers missing in this list are quarantines which have either been superseded or revoked. For convenience of reference these quarantines are here classified as domestic and foreign.

## DOMESTIC QUARANTINES.

*Date palms.*—Quarantine No. 6, with regulations: Prohibits the interstate movement of date palms or date-palm offshoots from Riverside County, Cal., east of the San Bernardino meridian; Imperial County, Cal.; Yuma, Maricopa, and Pinal Counties, Ariz.; and Webb County, Tex.; except in accordance with the rules and regulations prescribed in the Notice of Quarantine, on account of two injurious scale insects, to wit, the *Parlatoria* scale (*Parlatoria blanchardi*) and the *Phoenicococcus* scale (*Phoenicococcus marlatii*).

*Cotton seed and cottonseed hulls.*—Quarantine No. 9: Prohibits the importation of cotton seed and cottonseed hulls from the Territory of Hawaii on account of the pink bollworm.

*Hawaiian fruits.*—Quarantine No. 13, revised, with regulations: Prohibits the importation from Hawaii of all fruits and vegetables, in the natural or raw state, except in manner or method or under conditions prescribed in the regulations of the Secretary of Agriculture, on account of the Mediterranean fruit fly and the melon fly.

*Sugar cane.*—Quarantine No. 16: Prohibits the importation from Hawaii and Porto Rico of living canes of sugar cane or cuttings or parts thereof, on account of certain injurious insects and fungus diseases of the sugar cane known to occur in these Territories.

*Cotton.*—Quarantine No. 23, revised, with regulations: Prohibits the movement of cotton from Hawaii to the continental United States, except in accordance with the regulations prescribed in the Notice of Quarantine, on account of the pink bollworm.

*Gipsy moth and brown-tail moth.*—Quarantine No. 27, with regulations: Prohibits the movement interstate to any point outside of the quarantined towns and territory, or from points in the generally infested area to points in the lightly infested area of stone or quarry products and of the plants and the plant products listed therein until such stone or quarry products and plants and plant products have been inspected by the United States Department of Agriculture and certified to be free from the gipsy moth or the brown-tail moth, or both, as the case may be. This quarantine covers portions of the New England States.

*Five-leaved pines, Ribes, and Grossularia.*—Quarantine No. 26: Prohibits the interstate movement of five-leaved pines, currant and gooseberry plants from all States east of and including the States of Minnesota, Iowa, Missouri, Arkansas, and Louisiana to points outside of this area; prohibits, further, the interstate movement of five-leaved pines or black currant plants to points outside the area comprising the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, and New York.

## FOREIGN QUARANTINES.

*Irish potato.*—Quarantine No. 3: Prohibits the importation of the common or Irish potato from Newfoundland; the islands of St. Pierre and Miquelon; Great Britain, including England, Scotland, Wales, and Ireland; Germany; and Austria-Hungary on account of the disease known as potato wart.

*Mexican fruits.*—Quarantine No. 5, as amended: Prohibits the importation of oranges, sweet limes, grapefruit, mangoes, achras sapotes, peaches, guavas, and plums from the Republic of Mexico, on account of the Mexican fruit fly.

*Five-leaved pines, Ribes, and Grossularia.*—Quarantine No. 7, as amended: Prohibits the importation from each and every country of Europe and Asia and from the Dominion of Canada and Newfoundland of all five-leaved pines and all species and varieties of the genera *Ribes*, and *Grossularia*, on account of the white-pine blister rust.

*Cotton seed and cottonseed hulls.*—Quarantine No. 8, as amended, with regulations: Prohibits the importation from any foreign locality and country, excepting only the locality of the Imperial Valley, in the State of Lower California, Mexico, of cotton seed (including seed cotton) of all species and varieties and cottonseed hulls, on account of the pink bollworm.

*Seeds of avocado or alligator pear.*—Quarantine No. 12: Prohibits the importation from Mexico and the countries of Central America of the seeds of the avocado or alligator pear, on account of the avocado weevil.

*Sugar cane.*—Quarantine No. 15: Prohibits the importation from all foreign countries of living canes of sugar cane or cuttings or parts thereof, on account of certain injurious insects and fungus diseases of the sugar cane occurring in such countries. There are no restrictions on the entry of such materials into Hawaii and Porto Rico.

*Citrus nursery stock.*—Quarantine No. 19: Prohibits the importation from all foreign localities and countries of all citrus nursery stock, including buds, scions, and seeds, on account of the citrus canker and other dangerous citrus diseases. The term "citrus" as used in this quarantine includes all plants belonging to the subfamily or tribe *Citratae*.

*European pines.*—Quarantine No. 20: Prohibits, on account of the European pine-shoot moth (*Evetria buoliana*), the importation from all European countries and localities of all pines not already excluded by quarantine.

*Indian corn or maize and related plants.*—Quarantine No. 24, as amended: Prohibits the importation from southeastern Asia (including India, Siam, Indo-China, and China), Malayan Archipelago, Australia, New Zealand, Oceania, Philippine Islands, Formosa, Japan, and adjacent islands, in the raw or unmanufactured state, of seed and all other portions of Indian corn or maize (*Zea mays* L.), and the closely related plants, including all species of Teosinte (*Euchlaena*), Job's tears (*Coix*), *Polytoca*, *Chionachne*, and *Sclerachne*, on account of the downy mildews and *Physoderma* diseases of Indian corn, except that Indian corn or maize may be imported on compliance with the conditions prescribed in the regulations of the Secretary of Agriculture.

*Citrus fruit.*—Quarantine No. 28: Prohibits the importation from eastern and southeastern Asia (including India, Siam, Indo-China, and China), the Malayan Archipelago, the Philippine Islands, Oceania (except Australia, Tasmania, and New Zealand), Japan (including Formosa and other islands adjacent to Japan), and the Union of South Africa, of all species and varieties of citrus fruits, on account of citrus canker, except that oranges of the mandarin class (including satsuma and tangerine varieties) may be imported on compliance with the conditions prescribed in the regulations of the Secretary of Agriculture.

#### OTHER RESTRICTIVE ORDERS.

The regulation of the entry of nursery stock from foreign countries into the United States was specifically provided for in the plant-quarantine act. The act further provides for the similar regulation of any other class of plants or plant products when the need therefor shall be determined. The entry of the plants and plant products listed below have been brought under such regulation:

*Nursery stock.*—Nursery stock is entered under regulations requiring a permit, foreign certification and marking, reporting arrival and distribution, and inspection at destination. The term "nursery stock" includes all field-grown florists' stock, trees, shrubs, vines, cuttings, grafts, scions, buds, fruit pits and other seeds of fruit and ornamental trees or shrubs, and other plants and plant products for propagation, except field, vegetable, and flower seeds, bedding plants, and other herbaceous plants, bulbs, and roots.

*Irish potatoes.*—The importation of Irish potatoes is prohibited altogether from the countries enumerated in the potato quarantine. Potatoes may be admitted from other foreign countries in accordance with the order of December 22, 1913, bringing the entry of potatoes under restriction on account of injurious potato diseases and insect pests. The following countries have qualified for the importation of potatoes under the regulations issued under said order: Denmark, Holland, Belgium, Cuba, Bermuda, and the Dominion of Canada. The regulations issued under this order have been amended so as to permit, free of any restrictions whatsoever under the plant-quarantine act, the importation of potatoes from any foreign country into the Territories of Porto Rico and Hawaii for local use only and from the Dominion of Canada and Bermuda into the United States or any of its Territories or districts.

*Avocado, or alligator pear.*—The order of February 27, 1914, prohibits the importation from Mexico and the countries of Central America of the fruits of the avocado, or alligator pear, except under permit and in accordance with the other provisions of the regulations issued under said order, on account of the avocado weevil. Entry is permitted only through the port of New York and is limited to the large, thick-skinned variety of the avocado. The importation of the small, purple, thin-skinned variety of the fruit of the avocado and of avocado nursery stock under 18 months of age is prohibited.

*Cotton.*—The order of April 27, 1915, prohibits the importation of cotton from all foreign countries and localities, except under permit and in accordance with the other provisions of the regulations issued under said order, on account of injurious insects, including the pink bollworm. These regulations apply in part to cotton grown in and imported from the Imperial Valley, in the State of Lower California, in Mexico.

*Corn.*—The order of March 1, 1917 (Amendment No. 1, with Regulations, to Notice of Quarantine No. 24), prohibits the importation of Indian corn or maize in the raw or unmanufactured state from the countries and localities listed in Notice of Quarantine No. 24, except under permit and in accordance with the other provisions of the regulations issued under said order, on account of injurious diseases of Indian corn.

*Cottonseed products.*—The order of June 23, 1917, prohibits the importation of cottonseed cake, meal, and all other cottonseed products, except oil, from all foreign countries, and a second order of June 23, 1917, prohibits the importation of cottonseed oil from Mexico, except under permit and in accordance with the other provisions of the regulations issued under said orders, on account of injurious insects, including the pink bollworm.

*Citrus fruits.*—The order of June 27, 1917 (Notice of Quarantine No. 28, with Regulations), prohibits the importation from the countries and localities listed therein of all species and varieties of citrus fruits, excepting only oranges of the mandarin class (including satsuma and tangerine varieties), on account of the citrus canker disease. Oranges of the mandarin class (including satsuma and tangerine varieties) may be imported under permit and in accordance with the other provisions of the regulations issued under said order.